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PTO/SB/21 (08-03)

Approved for use through 08/30/2003. OMB 0651-0031

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/605,014	
	Filing Date	09/01/2003	
	First Named Inventor	Chuan-Pei Yu	
	Art Unit	600	
	Examiner Name		
Total Number of Pages in This Submission	37	Attorney Docket Number	ADTP0098USA

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Technology Center (TC)
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
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<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input type="checkbox"/> Other Enclosure(s) (please identify below):
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<input type="checkbox"/> Certified Copy of Priority Document(s)	Remarks	
<input type="checkbox"/> Response to Missing Parts/Incomplete Application		
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT		
Firm or Individual name	Winston Hsu, Reg. No.: 41,526	
Signature	<i>Winston Hsu</i>	
Date	JUL 23 2004	

CERTIFICATE OF TRANSMISSION/MAILING		
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.		
Typed or printed name		
Signature		Date

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PTO/SB/17 (10-03)

Approved for use through 07/31/2006. OMB 0651-0032

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FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 0.00

Complete if Known

Application Number	10/605,014
Filing Date	09/01/2003
First Named Inventor	Chuan-Pei Yu
Examiner Name	
Art Unit	
Attorney Docket No.	ADTP0098USA

METHOD OF PAYMENT (check all that apply)☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None☒ Deposit Account:Deposit Account Number: 50-3105
Deposit Account Name: North America Intellectual Property Corp.

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Credit any overpayments☒ Charge any additional fee(s) or any underpayment of fee(s)☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 770	2001 385	Utility filing fee	
1002 340	2002 170	Design filing fee	
1003 530	2003 265	Plant filing fee	
1004 770	2004 385	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	
SUBTOTAL (1)			(\$) 0.00

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
Independent Claims	-20** =	X	
Multiple Dependent	-3** =	X	

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	
1202 18	2202 9	Claims in excess of 20	
1201 86	2201 43	Independent claims in excess of 3	
1203 290	2203 145	Multiple dependent claim, if not paid	
1204 86	2204 43	** Reissue independent claims over original patent	
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2)			(\$) 0.00

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for <i>ex parte</i> reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 420	2252 210	Extension for reply within second month	
1253 950	2253 475	Extension for reply within third month	
1254 1,480	2254 740	Extension for reply within fourth month	
1255 2,010	2255 1,005	Extension for reply within fifth month	
1401 330	2401 165	Notice of Appeal	
1402 330	2402 165	Filing a brief in support of an appeal	
1403 290	2403 145	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,330	2453 665	Petition to revive - unintentional	
1501 1,330	2501 665	Utility issue fee (or reissue)	
1502 480	2502 240	Design issue fee	
1503 640	2503 320	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 770	2809 385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 770	2810 385	For each additional invention to be examined (37 CFR 1.129(b))	
1801 770	2801 385	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) 0.00

SUBMITTED BY

(Complete (if applicable))

Name (Print/Type)	Winston Hsu	Registration No. (Attorney/Agent)	41,526	Telephone	886289237350
Signature	<i>Winston Hsu</i>	Date	JUL 23 2004		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

1

Application Number	10/605,014
Filing Date	09/01/2003
First Named Inventor	Chuan-Pei Yu
Art Unit	
Examiner Name	
Attorney Docket Number	ADTP0098USA

[illegible][illegible]

Date Considered

1 Applicant's unique citation designation number (optional). 2 See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

5 Applicant(s): Chuan-Pei Yu, Han-Chou Liu, Chin-Kun
Hsieh, Chien-Hung Kuo

Filing Date: 09/01/2003 Art Unit:

App. No.: 10/605,014 Docket No.: ADTP0098USA

10

Title: LIQUID CRYSTAL DISPLAY

To: Commissioner for Patents

P.O. BOX 1450

15

Alexandria, VA 22313-1450

Subject: Information disclosure statement under 37 CFR
§1.56.

20 Dear Sir:

This is an Information Disclosure Statement in
accordance with the duty to disclose information
material to patentability under 37 CFR §1.56. The
25 applicant wishes to make of record the documents listed
on the accompanying form 1449A/PTO. It is respectfully
requested that the examiner initials the cited
reference on the form and that it be made of record
in the application and that a copy of the initialed
30 form be sent to the applicant with the next communication
from the examiner.

Since the IDS is filed before the mailing date of a first Office action on the merits, a petition to request consideration of the information disclosure statement is hereby requested according to 37 CFR §1.97(b). To
5 comply with 37 C.F.R. §1.97(e), which states that each item of information contained in the information disclosure statement was first cited in any communications from a foreign application not more than three months prior to the filing of the information
10 disclosure statement, each item of information contained in the information disclosure statement was first cited in the communication from the Taiwan Intellectual Property Office on May 25, 2004 for a counterpart foreign application. The applicant
15 sincerely hopes that the examiner can consider the items contained in this IDS.

According to the requirement set forth in 37 CFR §1.98 and MPEP 609 (Rev.1, Feb. 2000), the applicant
20 is submitting a copy of the reference cited by the Taiwan Intellectual Property Office, which including a Japanese patent application JP 2002244133 (published Aug. 28, 2002) and a Taiwanese patent application TW 552439 (published Sep. 11, 2003), and a concise
25 explanation of the relevance to this application hereinafter.

Regarding JP 2002244133, Fig. 1 illustrates a backlight module for providing backlight illumination
30 to a first LCD panel 1 and a second LCD panel 5. The backlight module includes a first light source 2, a first light guide plate 3, a resin frame 4, a second

light source 6, and a second light guide plate 7. JP 2002244133 never teaches to use lamp reflectors surrounding the light sources to improve the illumination efficiency of the backlight module, as
5 is disclosed in the amended claim 1 of the present application. In addition, JP 2002244133 never teaches to interlay the light sources between the first LCD display and the second LCD panel, as is disclosed in the amended claim 12 of the present application.
10 Therefore, the claimed invention of the present application is believed different from the prior art as shown in JP 2002244133.

Regarding TW 552439, Fig. 1 illustrates a backlight
15 module for providing backlight illumination to two LCD panels 2. The backlight module includes a light source 10, and a light guide plate 1 positioned between the two LCD panels 2. TW 552439 only teaches to put the light source(s) at one side of the light guide plate
20 1. TW 552439 never teaches the concept of introducing lights from both sides of the light guide plate, as is disclosed in the amended claim 1 of the present application. TW 552439 does not teach to use lamp reflectors surrounding the light sources to improve
25 the illumination efficiency of the backlight module, as is disclosed in the amended claim 1 of the present application. In addition, TW 552439 never teaches to interlay the light sources between the first LCD display and the second LCD panel, as is disclosed in the amended
30 claim 12 of the present application. Therefore, the claimed invention of the present application is believed different from the prior art as shown in TW

552439.

For convenience, the amended claims 1 and 12 of the present application are listed below:

5

Claim 1: A liquid crystal display comprising a first panel positioned on a front surface of a backlight unit, and a second panel positioned on a back surface of the backlight unit; wherein the backlight unit provides
10 light to both of the first panel and the second panel to enable either of the panels to display images, the backlight unit comprising:

a first light guide plate positioned on a back surface of the first panel;

15 a second light guide plate positioned on a back surface of the second panel;

at least a light source and a **first lamp reflector** surrounding the first light source positioned at a first side of the backlight unit, and at least a **second light**
20 **source and a second lamp reflector** surrounding the second light source positioned at a second side of the backlight unit; and

a reflector positioned between the first side and the second side to reflect light emitted from the first
25 light source and the second light source to the first panel and the second panel.

Claim 12: A liquid crystal display comprising a first panel positioned on a front surface of a backlight unit,
30 and a second panel positioned on a back surface of the backlight unit; wherein the backlight unit provides light to both of the first panel and the second panel

to enable either of the panels to display images, the
backlight unit comprising:

a first optical film and a first diffusion sheet
positioned on a back surface of the first panel;

5 a second optical film and a second diffusion sheet
positioned on a back surface of the second panel; and

at least a light source positioned between the first
diffusion sheet and the second diffusion sheet, and
light emitted from the light source passing through
10 the first diffusion sheet and the second diffusion sheet
to be uniformly transmitted to the first panel and the
second panel.

15 Respectfully Submitted,



Date: JUL 23 2004

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(Please contact me by e-mail if you need a telephone communication
25 and I will return your call promptly.)